

**SECRET**

26 November 1958

MEMORANDUM FOR: Project Director

SUBJECT : Discussions Held 24 November 1958 **25 YEAR RE-REVIEW**

1. This paper is to review our discussion of 24 November.

2. The Granger Associates box built for the U-2 has been sufficiently well tested to predict with reasonable certainty its operational usefulness. These incomplete but probably conclusive tests show that a complete break-lock does not occur at any time under the ideal GCI conditions of Point Mugu. A false indication approximately equal to the angle of the first null (7 to 8) of the attacking radar is accomplished from the initiation of the lock-on up to a range of about 2 1/2 miles. Within 2 1/2 miles a false indication of approximately 1/4 of the angle of the first null occurs. It should be emphasized that this data is the result of tests against the best existing conical-scan AI radar and under ideal GCI condition, personnel training and equipment. No better chance to overcome the action of the box exists anywhere in the world today.

3. We must conclude however, from these tests that under ideal conditions, most of our modern airborne missiles and fire control equipment would be operated in such a way as to make a kill.

4. As a result of our discussions, four steps are being taken:

- a. Two more tests on the existing box for technical purposes;
- b. Operational checks under different GCI and operational situations;
- c. A study to determine what should be done to the box to get better results (more power is required).
- d. The contractor will stop his purchasing of long lead-items for the present box.

I will effect the first three through Point Mugu, [ ] and Stanford University. [ ] will carry out point (d) above.

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I would estimate that answers will be available on (a), (b), and (c) within two weeks.

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